

Appleton Locks and Dams, Storage Building at Lock 1
Directly southeast of the Lock Shelter near the Lower Gate
Appleton
Outagamie County
Wisconsin

HAER No. WI-84-D

HAER
WIS
44-APPL,
ID-

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

**HISTORIC AMERICAN ENGINEERING RECORD
Rocky Mountain System Support Office
National Park Service
P.O. Box 25287
Denver, Colorado 80225-0287**

HISTORIC AMERICAN ENGINEERING RECORD

APPLETON LOCKS AND DAMS, STORAGE BUILDING AT LOCK 1

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HAER NO. WI-84-D

Location: The storage building at Appleton Lock 1 of the Appleton Locks and Dams Complex is located southeast of the lock shelter near the lower gate of the lock, in the N1/2, SE1/4, NW1/4 Section 35, T21N, R17E, Civil Town of Grand Chute, Outagamie County, Wisconsin.

UTM: 16/387620/4900840; USGS Quadrangle: Appleton, Wisconsin 7.5' series

Date of Construction: 1976

Engineer: United States Army Corps of Engineers with Contractors

Architect: United States Army Corps of Engineers with Contractors

Present Owner: United States Army Corps of Engineers

Present Use: Storage of paint and petroleum products.

Significance: The storage building functions as part of the daily operation of the Appleton Locks and Dams Complex.

Project Information: This documentation was undertaken in 1995 in accordance with requirements detailed in a June 19, 1994 letter from Gregory D. Kendrick, Chief, History Branch, NPS to Dale Monteith, Acting Chief, Planning Division, USACOE, Detroit District. The Lower Fox system remains basically operational but was placed in caretaker status by the USACOE in 1982. The USACOE plans to divest itself of the Lower Fox system as soon as is feasible; therefore, NPS requested this documentation. All documentation conforms to HAER standards.

Dr. John D. Richards, Principal Investigator; Georgia A. Lusk, Patricia B. Richards, and Robert J. Watson, Project Archivists with Great Lakes Archaeological Research Center, Inc.; Joseph Paskus, Project Photographer.

STORAGE BUILDING

The Lower Fox River Waterway begins in Menasha, Winnebago County, Wisconsin, and extends 37 miles through De Pere, Outagamie and Brown Counties to Green Bay, Wisconsin. However, for shelving purposes at the Library of Congress, Menasha in Winnebago County was selected as the "official" location for the Lower Fox River Waterway.

A 5 foot 4 inch by 5 foot 4 inch metal storage building is located southeast of the lock shelter. Constructed during the 1980s, the storage shed is a pre-fabricated structure manufactured by Armco Building Systems of Cincinnati, Ohio. The modular wall panels, which are bolted onto a concrete slab foundation, support a flat roof.¹ An entrance door is located on the southeast side of the storage building, and a single, louvered vent is centered on the opposite side.²

ENDNOTES

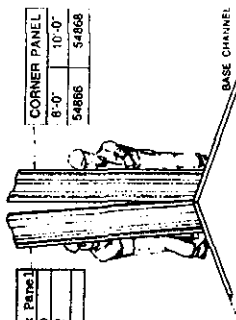
- 1 Armco Steel Buildings, Erection Instructions TL-1 Building, sheets ET-115, ET-116, ET-118, ET-119.
- 2 Ibid., sheets EW-109, E-159.

CORNER ERECTION

Starting at a corner assemble a corner panel and typical panel by bolting the interlocking rib to the base channel with bolt, star, and nut 51183. Plumb the corner and wrench tighten nut and bolt. Mark door and window locations so that short panels can be installed.

Typical Steelox Panel	8'-0"	10'-0"
51190	54492	54668

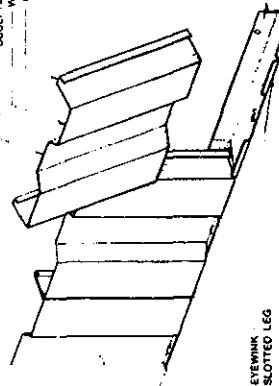
CORNER PANEL	8'-0"	10'-0"
54886	54868	54668



BASE CHANNEL

PANELS OVER SLING DOORS	8'	10'
ALL	54498	54504

SCULPTURE	WEB	RIB
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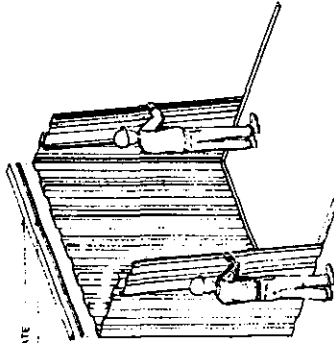


EYEWINK
SLOTTED LEG

WALL ERECTION

Erect end wall panels by placing the bottom of panel on base channel with panel ribs in base channel slots and panel web outside of slotted legs. Panel sculpture must be inside of base channel eye-wink. Interlock male rib with the female rib of the preceding panel and bolt interlocked ribs to the base channel.

ENDWALL PLATE
WALL CAP

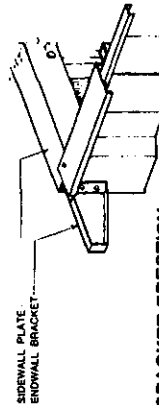


WALL CAP AND PLATE SCHEDULE	5'-4"	6'-8"	8'-0"	12'-0"
BLOG. WIDTH	50394	50395	50354	50396
ENDWALL CAP	60610	60611	60612	60613
REAR OR ENDWALL PLATE	60631	60632	60633	60634

WALL CAP & PLATE ERECTION

Place wall cap and plate on endwall panels. Plumb and square panels, but do not wrench tighten plate bolts. Erect the side walls. One wall from outside the building and the other wall from inside the building. Install side wall panels and plates against corner panels. Erect second end wall and rear wall panels. Erect second end wall and rear wall plates. Position end wall plates flush with front and rear plates, then wrench tighten all plate bolts.

See door and window instructions for installation. For 8'-4" long building field cut sidewall plate and wall cap.



SIDWALL PLATE
ENDWALL BRACKET

BRACKET ERECTION

Attach end wall brackets (60614 or 60615) flush with top of sidewall plates using two 1/2" x 1/4" TH6B at each corner. Field drill using 1/4" drill.

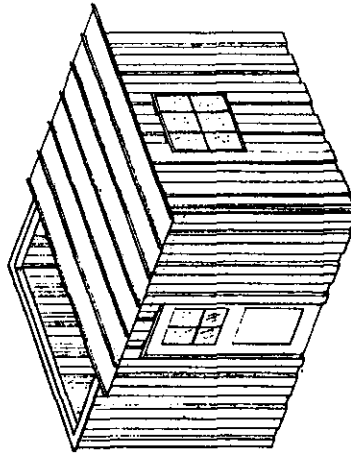
ROOF ERECTION

If ceiling is to be installed, it must be erected at the same time as is the roof...see std. ceiling detail.

Check building walls for plumb and square. Apply a continuous strip of tape sealant on top of plates. Set the first roof panel with the female rib 8" outside of endwall and with 8" of overhang on each sidewall. Field drill roof panel to match holes in plate and bolt with 1/4" x 3/4" bolts with weather seal washer.

Continue setting roof panels bolting only to the rear plate and keeping ends of panels even. Move rear wall and not the roof panels to maintain the 8" overhang. Again check the walls for plumb and square.

Field drill and bolt the roof panels to the front plate and endwall plates. Place fascia over male rib of the last roof panel. (Note: If ceiling is to be installed, do not erect last roof panel at this time...see std. ceiling details.) If alternate gutter-fascia is used, see ET-121. Attach ave flashing 60535 around building with #10 x 7/8" SWS 16" O.C. Field cut ends at corners for closing tab.



ROOF PANELS	5'-4"	6'-8"	8'-0"	12'-0"
BLOG. WIDTH	58978	54648	54649	58065
A 1040	58978	54648	54649	58065
B 1040	58978	54648	54649	58067
D 1040	58978	54648	54649	58681
G 1040	58978	54648	54649	58067
H 1040	58978	54648	54649	58067

ROOF AND WALL ERECTION TL-1 BUILDING

9/67	ET-119
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